

5.5V INPUT, 500 MA, LOW QUIESCENT CURRENT, CMOS LINEAR REGULATOR
W/EXTERNAL VOLTAGE DIVIDER No of Pins: 8 Temperature Range: Ind

Manufacturers	Analog Devices, Inc
Package/Case	SOIC-8
Product Type	Power Management ICs
RoHS	Rohs
Lifecycle	



Images are for reference only

Please submit RFQ for ADP125ARHZ-R7 or [Email to us: sales@ovaga.com](mailto:sales@ovaga.com) We will contact you in 12 hours.

[RFQ](#)

General Description

The ADP124/ADP125 are low quiescent current, low dropout linear regulators. They are designed to operate from an input voltage between 2.3 V and 5.5 V and to provide up to 500 mA of output current. The low 130 mV dropout voltage at a 500 mA load improves efficiency and allows operation over a wide input voltage range.

The low 210 μ A of quiescent current with a 500 mA load makes the ADP124/ADP125 ideal for battery-operated portable equipment. The ADP124 is capable of 31 fixed-output voltages from 1.75 V to 3.3 V. The ADP125 is the adjustable version of the device and allows the output voltage to be set between 0.8 V and 5.0 V by an external voltage divider. The ADP124/ADP125 are specifically designed for stable operation with tiny 1 μ F ceramic input and output capacitors to meet the requirements of high performance, space constrained applications.

The ADP124/ADP125 have an internal soft start that gives a constant start-up time of 350 μ s. Short-circuit protection and thermal overload protection circuits prevent damage in adverse conditions. The ADP124/ADP125 are available in an 8-lead exposed paddle MSOP package. When compared with the standard MSOP package, the exposed paddle MSOP package has lower thermal resistance (θ JA). The lower thermal resistance package allows the ADP124/ADP125 to meet the needs of a variety of portable applications while minimizing the rise in junction temperature.

Features

Input voltage supply range: 2.3 V to 5.5 V

500 mA maximum output current

Fixed and adjustable output voltage versions

1% initial accuracy

Up to 31 fixed-output voltage options available from 1.75 V to 3.3 V

Adjustable-output voltage range from 0.8 V to 5.0 V

Very low dropout voltage: 130 mV

Low quiescent current: 45 μ A

Low shutdown current: <1 μ A

Excellent PSRR performance: 60 dB at 100 kHz

Excellent load/line transient response

See data sheet for additional features

Application

Digital camera and audio devices

Portable and battery-powered equipment

Automatic meter reading (AMR) meters

GPS and location management units

Medical instrumentation

Point of load power

Related Products



[ADP3336ARMZ-REEL7](#)

Analog Devices, Inc
MSOP-8



[ADP3367ARZ](#)

Analog Devices, Inc
SOIC-8



[ADP3330ARTZ3.3-RL7](#)

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SOT-23-6



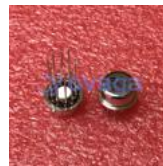
[ADR421ARZ](#)

Analog Devices, Inc
SOP-8



[AD737JRZ](#)

Analog Devices, Inc
SOP-8



[AD636JH](#)

Analog Devices, Inc
TO-100-10



[ADR434BRZ](#)

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[ADR3412ARJZ-R7](#)

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